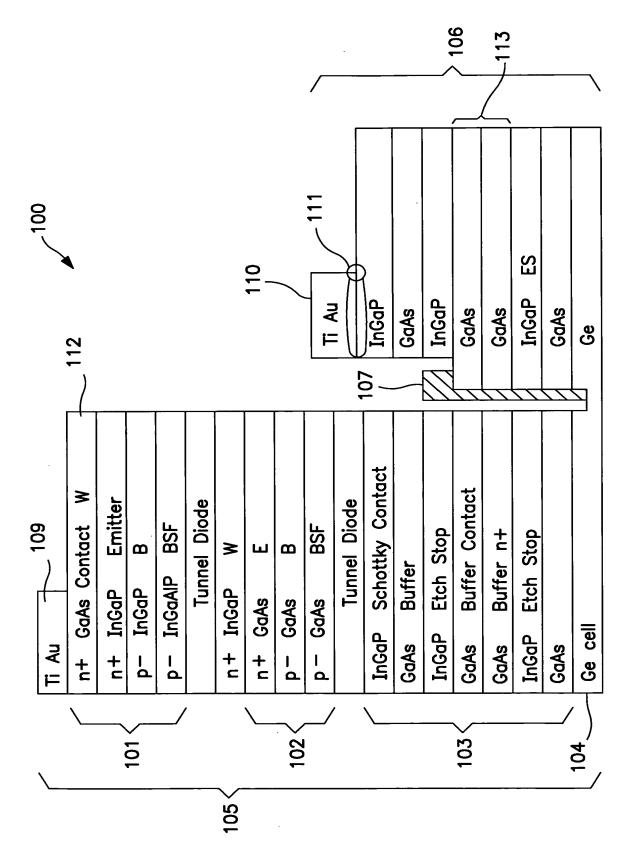


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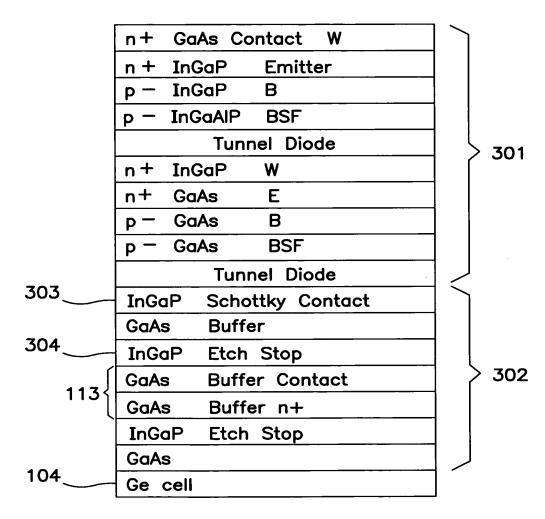


FIG. 3

n+Ga As Contact n + InGaP p - InGaP p - InGaAIP Tunnel Diode n + InGaP n + GaAs p - GaAs Tunnel Diode InGaP Schottky Contact GaAs Buffer InGaP Etch Stop GaAs Buffer n+ InGaP Etch Stop GaAs Ge cell		100	
n + InGaP p - InGaP p - InGaAIP Tunnel Diode n + InGaP n + GaAs p - GaAs p - GaAs Tunnel Diode InGaP Schottky Contact GaAs Buffer InGaP Etch Stop GaAs Buffer n+ InGaP Etch Stop GaAs		*	
p — InGaP p — InGaAIP Tunnel Diode n+ InGaP n+ GaAs p — GaAs p — GaAs Tunnel Diode InGaP Schottky Contact GaAs Buffer InGaP Etch Stop GaAs Buffer n+ InGaP Etch Stop GaAs	n+Ga As Contact		
Tunnel Diode n+ InGaP n+ GaAs p- GaAs p- GaAs Tunnel Diode InGaP Schottky Contact GaAs Buffer InGaP Etch Stop GaAs Buffer Contact GaAs Buffer n+ InGaP Etch Stop GaAs	n+ InGaP		
Tunnel Diode n+ InGaP n+ GaAs p- GaAs p- GaAs Tunnel Diode InGaP Schottky Contact GaAs Buffer InGaP Etch Stop GaAs Buffer Contact GaAs Buffer n+ InGaP Etch Stop GaAs	p - InGaP		
n + InGaP n + GaAs p - GaAs p - GaAs Tunnel Diode InGaP Schottky Contact GaAs Buffer InGaP Etch Stop GaAs Buffer Contact GaAs Buffer n+ InGaP Etch Stop GaAs	p — InGaAlP		
n + GaAs p - GaAs p - GaAs Tunnel Diode InGaP Schottky Contact GaAs Buffer InGaP Etch Stop GaAs Buffer Contact GaAs Buffer n+ InGaP Etch Stop GaAs	Tunnel Diode		
p — GaAs p — GaAs Tunnel Diode InGaP Schottky Contact GaAs Buffer InGaP Etch Stop GaAs Buffer Contact GaAs Buffer n+ InGaP Etch Stop GaAs	n+ InGaP		
Tunnel Diode InGaP Schottky Contact GaAs Buffer InGaP Etch Stop GaAs Buffer Contact GaAs Buffer n+ InGaP Etch Stop GaAs	n + GaAs		
Tunnel Diode InGaP Schottky Contact GaAs Buffer InGaP Etch Stop GaAs Buffer Contact GaAs Buffer n+ InGaP Etch Stop GaAs	p - GaAs		
InGaP Schottky Contact GaAs Buffer InGaP Etch Stop GaAs Buffer Contact GaAs Buffer n+ InGaP Etch Stop GaAs	p - GaAs		
InGaP Schottky Contact GaAs Buffer InGaP Etch Stop GaAs Buffer Contact GaAs Buffer n+ InGaP Etch Stop GaAs	Tunnel Diode	·	
InGaP Etch Stop GaAs Buffer Contact GaAs Buffer n+ InGaP Etch Stop GaAs	InGaP Schottky	Contact	403
GaAs Buffer Contact GaAs Buffer n+ InGaP Etch Stop GaAs	GaAs Buffer		
GaAs Buffer n+ InGaP Etch Stop GaAs	InGaP Etch Sto	Р	
GaAs Buffer n+ InGaP Etch Stop GaAs	GaAs Buffer Co	ontact	1113
GaAs	GaAs Buffer n-	+	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\
<u> </u>	InGaP Etch Sto	p	
Ge cell	GaAs		
	Ge cell		

FIG. 4

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									_				1113) - -			104
							501			InGap	GaAs	InGaP	GaAs	GaAs	InGaP ES	GaAs	Ge
n+ GaAs Contact W	n + InGaP Emitter	p - InGaP B	p — InGaAIP BSF	Tunnel Diode	n+ InGaP W	n + GaAs E	p - GaAs B	p – GaAs BSF	Tunnel Diode	InGaP Schottky Contact	GaAs Buffer	InGaP Etch Stop	GaAs Buffer Contact	GaAs Buffer n+	InGaP Etch Stop	GaAs	Ge cell

FIG. 5